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NIST SP790, Volume 2

# National Bureau of Standards Publications 1977–1987: Indexes

Rebecca Pardee
Ernestine Gladden
Donald Harris

NATIONAL INSTITUTE OF STANDARDS &
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## CATALOG STRUCTURE AND USE

Volume 1 contains full bibliographic citations, key words, and abstracts for 15,746 National Bureau of Standards (NBS) (as of August 23, 1988 the National Institute of Standards and Technology (NIST)) papers published and entered into the National Technical Information Service (NTIS) collection between 1977 and 1987. Also included are several papers published prior to 1977 but not entered into the NTIS collection until 1977.

Entries are arranged by NTIS subject classifications which consist of 38 broad subject categories (see back cover) and over 350 subcategories. Within a subcategory, entries are listed alphanumerically by NTIS order number. The abstract numbers run consecutively from the first entry to the last.

Volume 2 contains four indexes to allow the user to identify papers by personal author, key words, title, and NTIS order/report number. Each entry contains the appropriate title, the NTIS order number, and the abstract number.

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Department of Commerce District Offices listed in Appendix B Volume 1 provide ready access at the local level to publications, statistical data and summaries, and surveys. Each District Office serves as an official sales agency of the Superintendent of Documents, U.S. Government Printing Office. A wide range of Government publications can be purchased from these offices. In addition, the reference library of each District Office contains review copies of many Government publications.

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**DIOXANES**

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PB85-143956 *705,103*

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Detection of Phosphorus in Epitaxial Silicon by EPR (Electron Paramagnetic Resonance).
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Detection of the Methyl Radical in a Methane/Air Diffusion Flame by Multiphoton Ionization Spectroscopy.
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Determination of Diffusion Coefficients by Chronoamperometry with Unshielded Planar Stationary Electrodes.
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Determination of Diffusion Parameters in a Mixture of Two Phases (Opredelenie Parametrov Diffusii v Smesi Dvykh Faz)--Translation.
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Determination of Electron Collision Cross Sections from Swarm Data.
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Determination of Selected Toxic Elements in Biological Matrices Using Radiochemical Activation Analysis.
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Determination of the Aqueous Solubility of Polynuclear Aromatic Hydrocarbons by a Coupled Column Liquid Chromatographic Technique.
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Determination of the Be-Auger-Electron Attenuation Length in Be Using 160-keV Protons,
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PB-291 575-T *711,436* PC **A03**/MF **A01**

Determination of the Diffusion Characteristics of Zinc in Copper According to the Initial Stage of Whiskers Thickening--Translation.
PB80-220684 *711,484* PC **A02**/MF **A01**

Determination of the Diffusion Coefficient of Metals (Metodi Opredelenia Coeffitsienta Diffugi Mettalov)--Translation.
PB-283 158-T *711,415* PC **A03**/MF **A01**

Determination of the Diffusion Parameters of Chromium during the Vacuum Chromizing of Low-Carbon Steel--Translation.
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Determination of the Kinetic Constants in a Two-Substrate Enzymatic Reaction,
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Determination of the Neutron Magnetic Moment.
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Determination of the Viscoelastic Shear Modulus Using Forced Torsional Vibrations.
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Determination of Trace Elements in New Food Grain SRM's Using Neutron Activation Analysis.
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Determination of Trace-Level Chromium(VI) in the Presence of Chromium(III) and Iron(III) by Flow Injection Amperometry.
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Determination of Trace Level Hydrocarbons in Marine Biota.
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Determination of Trace Levels of Cyanide by Ion Chromatography with Electrochemical Detection.
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Determination of 'True' Polarization Curves for Corrosion Rate Measurements of Steel in NaCl Stagnant Solutions,
PB81-141772 *710,976* Not available NTIS

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PB85-189421 *708,641* Not available NTIS

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PB83-126631 *702,231* PC **A02**/MF **A01**

Determination of Water in Solids by Automatic Karl Fischer Titration,
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PB88-122221 *710,945* Not available NTIS

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PB81-120552 *711,031* Not available NTIS

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PB82-107350 *701,012* PC **A07**/MF **A01**

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PB81-118523 *700,032* Not available NTIS

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PB87-151866 *715,490* Not available NTIS

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PB88-117395 *700,250* Not available NTIS

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PB-274 976/0 *708,804* Not available NTIS

Development and Evaluation of a Test Method for Shower Heads.
PB83-180406 *712,691* PC **A04**/MF **A01**

Development and Evaluation of an LNG Sampling Measurement System.
PB-289 938/3 *702,111* PC **A10**/MF **A01**

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PB82-242355 *706,788* PC **A05**/MF **A01**

Development and Implementation of Standards for Solar Heating and Cooling Applications.
PB-263 272/7 *708,886* Not available NTIS

Development and Testing of a Highly Directional Dual-Mode Electronic Siren.
PB-280 618/0 *715,688* PC **A04**/MF **A01**

Development and Use of Numeric Physical/Chemical Properties Databases.
PB85-196046 *705,205* Not available NTIS

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PB84-236074 *711,297*
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Development of a Calorimeter for Simultaneously Measuring Heat Release and Mass Loss Rates.
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PB82-135617 *701,244* PC **A03**/MF **A01**

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PB87-201562 *710,789* Not available NTIS

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PB-280 027/4 *711,714* PC **A03**/MF **A01**

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PB85-177913 *701,861* PC **A06**/MF **A01**

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PB84-217017 *710,144* PC **A03**/MF **A01**

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PB-280 439/1 *710,639* Not available NTIS

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PB80-196512 *701,638* PC **A11**/MF **A01**

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PB85-137768 *712,911* Not available NTIS

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PB81-180259 *706,410* PC **A13**/MF **A01**

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PB-281 927/4 *701,758* Not available NTIS

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PB86-206414 *709,185*
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PB87-197711 *715,520* Not available NTIS

Development of a Step Loading Seizure Test for Engine Oil Additive Response.
PB84-236090 *711,299*
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PB87-108155 *709,599* Not available NTIS

Development of a Test Apparatus and Method for Measuring Adhesion of Protective Coatings.
PB82-250010 *710,831* PC **A03**/MF **A01**

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PB87-225447 *710,795* Not available NTIS

Development of a 6 to 7 MeV Photon Field for Instrument Calibration.
PB87-117719 *712,851* Not available NTIS

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PB80-169352 *709,316* PC **A05**/MF **A01**

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PB82-252339 *701,479* PC **A04**/MF **A01**

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PB83-179523 *706,541* Not available NTIS

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PB85-208494 *706,483* PC **A05**/MF **A01**

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PB-296 929/3 *714,858* Not available NTIS

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PB82-264078 *708,722* Not available NTIS

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PB81-164535 *701,231* PC **A07**/MF **A01**

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PB83-164368 *701,500* PC **A03**/MF **A01**
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Development of High-Strength, Acrylic Resin-Compatible Adhesive Cements.
PB84-225564 *710,607* Not available NTIS

Development of Hydrogen and Hydroxyl Contamination in Thin Silicon Dioxide Thermal Films.
PB-293 556/7 *714,007* PC **A03**/MF **A01**

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PB-284 730/9 *702,100* Not available NTIS

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PB88-147236 *714,693* Not available NTIS

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PB-291 427/3 *709,886* PC **A05**/MF **A01**

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PB85-142941 *708,353* Not available NTIS

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Measurement of Ionization Rates of Ti IX, Ne VI, Ne VII and O VI.
PB85-184653 *705,173* Not available NTIS

Measurement of Liquid-Liquid Interfacial Kinetics.
PB87-106134 *705,756* Not available NTIS

Measurement of Low Level Laser Pulses at 1.064 Micrometers.
PB80-165723 *713,342* Not available NTIS

Measurement of Material Flame Spread Properties.
PB83-101931 *701,489* PC **A03**/MF **A01**
PB84-136456 *706,551* Not available NTIS

Measurement of Multimode Optical Fiber Attenuation.
PB83-251207 *713,484* PC **A04**/MF **A01**

Measurement of Multimode Optical Fiber Attenuation: An NBS (National Bureau of Standards) Special Test Service.
PB84-192202 *713,520* PC **A03**/MF **A01**

Measurement of Net Space Charge Density Using Air Filtration Methods,
PB82-225723 *710,090* PC **A03**/MF **A01**
PB85-207421 *708,369* Not available NTIS

Measurement of Neutrons Reflected from the Surfaces of a Calibration Room.
PB82-212291 *712,813* Not available NTIS

Measurement of Nonuniform Power Frequency Electric Fields.
PB84-219823 *708,329* Not available NTIS

Measurement of Optical Fiber Bandwidth in the Frequency Domain.
PB82-135179 *713,406* PC **A03**/MF **A01**

Measurement of Optical Fiber Bandwidth in the Time Domain.
PB80-177421 *713,345* PC **A04**/MF **A01**

Measurement of Optical Fibre Absorption Loss: A Novel Technique.
PB83-129296 *713,445*
(Order as PB83-129148, PC **A08**/MF **A01**)

Measurement of Organomercury Species in Biological Samples by Liquid Chromatography with Differential Pulse Electrochemical Detection.
PB-292 365/4 *709,313* Not available NTIS

Measurement of Polydispersity of Narrow Fractions and Column Spreading Parameters by Recycle Liquid Size Exclusion Chromatography,
PB80-212145 *706,254* Not available NTIS

Measurement of Polymer-Polymer Compatibility by Non-Radiative Energy Transfer Technique.
PB84-242098 *706,167* Not available NTIS

Measurement of Polymer-Solvent Diffusivity by Inverse Gas-Chromatography.
PB85-142891 *705,083* Not available NTIS

Measurement of Prebreakdown Electric Fields in Liquid Insulants.
PB-288 034/2 *707,881* Not available NTIS

Measurement of Propagation Constants Related to Material Properties in High-Bandwidth Optical Fibers.
PB80-216476 *713,361* Not available NTIS

Measurement of Pulse Transition Duration.
PB-288 103/5 *708,216* Not available NTIS

Measurement of Pulsed-Laser Power.
PB-294 049/2 *713,304* PC **A03**/MF **A01**

Measurement of Radiation-Induced Interface Traps Using MOSFETs.
PB87-119608 *708,125* Not available NTIS

Measurement of Relative Extreme-Wing Absorption Coefficients By Excited-State Degenerate Four-Wave Mixing.
PB85-207272 *705,286* Not available NTIS

Measurement of Residual Stresses in Coatings on Brittle Substrates by Indentation Fracture.
PB87-224218 *710,861* Not available NTIS

Measurement of Residual Stresses: Problems and Opportunities.
PB81-199663 *709,728* Not available NTIS

Measurement of Resonant and Non-Resonant Third Order Nonlinear Susceptibilities by Coherent Raman Spectroscopy.
PB87-152013 *705,910* Not available NTIS

Measurement of RF Signal Generator Phase Noise Using a One-Generator Delay-Line Method.
PB87-233334 *713,090* Not available NTIS

Measurement of Shielding Effectiveness of Different Cable and Shielding Configurations by Mode-Stirred Techniques,
PB88-155791 *707,862* PC **A03**/MF **A01**

Measurement of Single Chain Neutron Scattering in Concentrated Polymer Solutions.
PB80-201288 *703,638* Not available NTIS

Measurement of Small Radiocarbon Samples: Power of Alternative Methods for Tracing Atmospheric Hydrocarbons.
PB81-130189 *709,127* Not available NTIS

Measurement of Solids Fraction in Two-Component Slurries.
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Measurement of Synchrotron Radiation from the NBS SURF II Using a Silicon Radiometer.
PB81-144339 *713,381* Not available NTIS

Measurement of Temperature.
PB80-215874 *709,558* Not available NTIS

Measurement of Temperature, Humidity, and Fluid Flow.
PB86-199957 *708,877* Not available NTIS

Measurement of the Absolute Spectral Response of Detectors.
PB-264 307/0 *707,782* Not available NTIS

Measurement of the Concentration of Sulfur Dioxide, Nitrogen Oxides, and Ozone in the National Archives Building.
PB84-135615 *709,151* PC **A02**/MF **A01**

Measurement of the Contribution of Excitation-Autoionization to Electron-Impact Ionization of Ions: Ti3+ , Zr3+ , Hf3+ , and Ta3+ .
PB83-235085 *704,488* Not available NTIS

Measurement of the Core Diameter of Graded-Index Optical Fibers, an Interlaboratory Comparison.
PB84-153113 *713,514* Not available NTIS

Measurement of the Dielectric Constant of Slurries in Pipes.
PB86-185279 *702,678* Not available NTIS

Measurement of the Electric-Field in the Vicinity of an Oil-Pressboard Interfaces Parallel to the Field.
PB84-224724 *704,778* Not available NTIS

Measurement of the Frost Point of Air in Sealed Insulating Glass.
PB-274 972/9 *701,305* Not available NTIS

Measurement of the Heat Capacity of Molybdenum (Standard Referenc Material) in the Range 1500 to 2800 K by a Pulse Heating Technique.
PB84-135920 *704,619* Not available NTIS

Measurement of the Interlayer between Aluminum and Silicon Dioxide Using Ellipsometric Capacitance-Voltage and Auger Electron Spectroscopy Techniques.
PB82-199456 *714,245* Not available NTIS

Measurement of the Lamb Shift in Hydrogen, eta = 2.
PB85-130334 *704,993*
(Order as PB85-130078, PC **A99**/MF **A01**)

Measurement of the NBS (National Bureau of Standards) Black Neutron Detector Efficiency at 2.3 MeV.
PB86-229697 *712,847* Not available NTIS

Measurement of the Optical Properties of Solar Energy Materials.
PB85-140705 *710,174* Not available NTIS

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PB86-201829 *702,434* Not available NTIS

Measurement of the Photoelastic Constants of Optical Materials.
PB-289 095/2 *713,295* Not available NTIS

Measurement of the Positions of Points on the Earth's Surface Using an Absolute Gravimeter and a Multi-Wavelength Geodimeter as Complements to Extraterrestrial Techniques,
PB-266 865/5 *712,566* Not available NTIS

Measurement of the Positronium 1 triplet S(sub 1)-2 triplet S(sub 1) Interval by Doppler-Free Two-Photon Spectroscopy.
PB84-244276 *704,858* Not available NTIS

Measurement of the Protective Value of Fabrics in a Fire Environment.
PB84-245877 *706,571* Not available NTIS

Measurement of the Rate of the Reaction N + H + M Yields NH + M,
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Measurement of the Ratio of the Speed of Sound to the Speed of Light.
PB87-118709 *715,464* Not available NTIS

Measurement of the Relative Enthalpy of Tungsten Between 273.15 and 1173.15 K; Derived Electronic Heat-Capacity Coefficient.
PB80-203037 *703,639* Not available NTIS

Measurement of the Resistivity of a Thin Square Sample with a Square Four-Probe Array,
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Measurement of the Separation Distance in Contact and Proximity Lithography.
PB87-161881 *710,497* Not available NTIS

Measurement of the Setting Time and Strength of Concrete by the Impact-Echo Method,
PB88-111851 *706,462* PC **A06**/MF **A01**

Measurement of the Shift of Rydberg Energy Levels Induced by Blackbody Radiation.
PB85-137784 *705,027* Not available NTIS

Measurement of the Silver Freezing Point with an Optical Fiber Thermometer: Proof of Concept.
PB86-193604 *710,225* Not available NTIS

Measurement of the Size Distribution of Liquid and Solid Aerosols by Doppler Shift Spectroscopy.
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Measurement of the Smoke Leakage of Door Assemblies during Standard Fire Exposures.
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Measurement of the Solubilities of Slightly Soluble Organic Liquids in Water by Elution Chromatography.
PB81-135253 *703,766* Not available NTIS

Measurement of the Spin-Orbit Branching Ratios and the Angular Asymmetry Parameter in the Region of the 4s4p(6)5p Resonances in Krypton and the 5s5p(6)6p Resonances in Xenon.
PB83-134106 *704,340* Not available NTIS

Measurement of the Ti x ion Density in a Theta-Pinch Plasma by a Laser Heterodyne Quadrature Interferometer.
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Measurement of the Vapor Pressures of TNT, 2, 4-DNT, 2, 6-DNT, and EGDN,
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Measurement of the X-Ray Induced Light Photons Emitted from Radiographic CaWO4 Intensifying Screens.
PB85-195931 *700,851* Not available NTIS

Measurement of the 1s Lamb Shift in Hydrogenlike Chlorine.
PB85-205185 *705,254* Not available NTIS

Measurement of the 2 doublet P (3/2) - 2 doublet S (1/2) Fine-Structure Interval in Atomic Hydrogen.
PB85-130326 *704,992*

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Measurement of the 4 doublet S(1/2) - 4 doublet P(1/2) Lamb Shift in He(+ 1).
PB85-130359 *704,995*

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Measurement of the 10 B(n, alpha gamma)7 Li Cross Section in the keV Energy Program.
PB-288 543/2 *714,837* Not available NTIS

Measurement of the (235)U Mass in a Large Volume Multiplated Fission Ionization Chamber.
PB85-140663 *712,834* Not available NTIS

Measurement of the (235)U(n,f) Cross Section from 0.3 to 3.0 MeV Using the NBS (National Bureau of Standards) Electron Linac.
PB84-135912 *715,122* Not available NTIS

Measurement of the 235U Neutron-Induced Fission Cross Section at 14.1 MeV.
PB82-210378 *715,024* Not available NTIS

Measurement of Thermal Radiation Properties of Materials.
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PB86-142791 *715,384* Not available NTIS

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Measurement of Thermodynamic Temperatures Using Noise and Nuclear Orientation Thermometers.
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Measurement of Thin-Layer Surface Stresses by Indentation Fracture.
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Measurement of Threshold Reaction Cross Section Ratios in Fission Neutron Fields.
PB80-104169 *714,900* Not available NTIS

Measurement of Time-Dependent Sputter-Induced Silver Segregation at the Surface of a Ni-Ag Ion Beam Mixed Solid.
PB86-138062 *714,537* Not available NTIS

Measurement of Transistor Collector-Emitter Saturation Voltage.
AD-A040 688/4 *707,977* PC **A03**/MF **A01**

Measurement of Tunnel States in Solid CH3NO2 and CD3NO2.
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Measurement of U I Relative Oscillator Strengths.
PB-270 201/7 *702,875* Not available NTIS

Measurement of Velocity and Temperature Profiles in Low-Speed, Turbulent Non-Isothermal Flows,
PB88-155833 *706,682* PC **A03**/MF **A01**

Measurement of Wind Loads on a Full-Scale Mobile Home.
PB-297 463/2 *701,632* PC **A07**/MF **A01**

Measurement of 13C Chemical Shifts in Solids.
PB85-129302 *704,985* Not available NTIS

Measurement Problems in Multimode Optical Waveguides.
PB-299 771/6 *713,315* Not available NTIS

Measurement Procedures for the Optical Beam Splitter Attenuation Device BA-1.
PB-272 358/3 *713,230* PC **A02**/MF **A01**

Measurement Standards for Air Pollution Monitoring and Control Associated with Energy Production.
PB-281 627/0 *709,100* Not available NTIS

Measurement Standards for Water Monitoring Associated with Energy Production and Use.
PB-281 626/2 *709,308* Not available NTIS

Measurement Technique for Determining the Temperature Distribution in a Transparent Solid Using Holographic Interferometry.
PB87-191078 *713,764* Not available NTIS

Measurement Techniques for Evaluating Solar Reflector Materials.
PB85-119469 *709,045* PC **A04**/MF **A01**

Measurement Techniques for Fuel Stability Characterization.
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Measurement Techniques for High Power Semiconductor Materials and Devices.
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PB86-162179 *710,215* PC **A04**/MF **A01**

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PB81-219628 *709,867* PC **A03**/MF **A01**

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PB80-203417 *712,942* PC **A99**/MF **A01**

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LA-UR-80-1817 *712,938* PC **A02**/MF **A01**

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PB81-144222 *711,326* Not available NTIS

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Measurements of Axial Heat Transport in Helium II with Forced Convection.
PB-298 652/9 *714,869* Not available NTIS

Measurements of Combined Axial Mass and Heat Transport in He II.
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Measurements of DC Electric Fields and Ion Related Quantities.
PB85-143840 *708,356* Not available NTIS

Measurements of Densities and Dielectric Constants of Liquid Isobutane from 120 to 300 K at Pressures to 35 MPa.
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Measurements of Dose Distributions in Various Materials Irradiated by 10-MeV Electrons.
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Measurements of Electron Attenuation Lengths in Condensed Molecular Solids.
PB86-230299 *705,713* Not available NTIS

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Measurements of Inelastic Neutron Scattering in the eV Range.
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Measurements of Inelastic Scattering of eV Neutrons.
PB83-143818 *715,070* Not available NTIS

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Measurements of New FIR Laser Lines in CD3OD.
PB87-233367 *713,776* Not available NTIS

Measurements of Orthobaric Liquid Densities of Multicomponent Mixtures of LNG Components (N2, CH4, C2H6, C3H8, CH3CH(CH3)C2H5, C4H10, and C5H12) between 110 and 130 K.
PB83-143552 *704,397* Not available NTIS

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PB-278 943/6 *711,385* Not available NTIS

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PB-266 867/1 *707,984* Not available NTIS

Measurements of Sky Luminance, Sky Illuminance, and Horizontal Solar Radiation.
PB85-145423 *700,659* Not available NTIS

Measurements of Small Dimensions of Products and By-Products.
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Measurements of Strain in Cabled Monomode Fibre.
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Measurements of Stylus Radii.
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Measurements of the Heat Capacities Cv of Dense Gaseous and Liquid Nitrogen and Nitrogen Trifluoride.
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Measurements of the Specific Heat, Cv, of Ethylene.
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Measurements of the Viscosities of Saturated and Compressed Liquid Normal Butane and Isobutane.
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Measurements of the Viscosity of Compressed Gaseous and Liquid Ethane.
PB82-152463 *704,116* Not available NTIS

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PB81-174385 *703,886* Not available NTIS

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PB84-137066 *704,637* Not available NTIS

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PB-285 324/0 *703,189* Not available NTIS

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Mechanical Behavior of Ultra High Molecular Weight Polyethylene.
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Use of a Monte Carlo Electron Trajectory Simulation for Quantitative Analysis of Thick Films in the Electron Probe Microanalyzer.
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The Use of Acoustic Emission in a Test for Beam-Lead, TAB, and Hybrid Chip Capacitor Bond Integrity.
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Use of Aerial Infrared Thermography to Compare the Thermal Resistances of Roofs.
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**AD-A050 923/2**
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AD-A056 197/7 *713,199* PC **A02**/MF **A01**

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**AD-A111 919/7**
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**AD-A119 293/9**
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**AD-A125 809/4**
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**AD-A127 410/9**
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AD-A127 410/9 *714,706* Not available NTIS

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Excimer Laser Photolysis Studies of Translational-to-Vibrational Energy Transfer in Collisions of H and D Atoms with CO.
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Ab Initio Determination of the Ground State Potential Energy Curve for Ar2.
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AD-A137 765/4 *702,781* PC **A02**/MF **A01**

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Combustion Technology for Incinerating Wastes from Air Force Industrial Processes.
AD-A139 213/3 *709,244* PC **A06**/MF **A01**

**AD-A141 636/1**
Vibrational Energy Disposal in Polyatomic Ion-Molecule Reactions: SF6(-) + H,D Yields SF5(-) + HF(v),DF(v).
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**AD-A142 580/0**
On Errors-in-Variables for Binary Regression Models.
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**AD-A147 500/3**
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AD-A147 500/3 *706,784* PC **A07**/MF **A01**

**AD-A147 834/6**
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AD-A147 834/6 *706,959* PC **A02**/MF **A01**

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**AD-A159 104/9**
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**AD-A160 831/4**
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**AD-A183 010/8**
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**AD-D003 572/5**
Vector Voltmeter.
PATENT-4 001 681 *707,864* Not available NTIS

**AD-D011 007/2**
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PATENT-4 437 080 *707,869* Not available NTIS

**AD-D011 301/9**
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PATENT-4 423 768 *709,954* Not available NTIS

**AD-D012 285/3**
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PATENT-4 577 510 *709,959* Not available NTIS

**AD-P002 450/5**
Laser Cooled 9Be+ Accurate Clock.
AD-P002 450/5 *714,756* PC **A02**/MF **A01**

**AD-P002 453/9**
National and International Time and Frequency Comparisons.
AD-P002 453/9 *714,757* PC **A02**/MF **A01**

**AD-P002 479/4**
Excess Noise in Quartz Crystal Resonators.
AD-P002 479/4 *707,863* PC **A02**/MF **A01**

**AD-P002 923/1**
Vigilance Performance of Security Force Personnel.
AD-P002 923/1 *700,068* PC **A02**/MF **A01**

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AD-P002 925/6 *712,557* PC **A02**/MF **A01**

**AD-P002 927/2**
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Data Distribution in the NBS (National Bureau of Standards) Automated Manufacturing Research Facility.
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**AD-P004 524/5**
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New Time and Frequency Services at the National Bureau of Standards.
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**AD-777 836/8**
Note on Radiation Patterns of Array Antennas.
AD-777 836/8 *707,560* PC **A02**/MF **A01**

**AD-777 837/6**
Note on Resolution of Radar Targets in Clutter.

AD-777 837/6 *707,555* PC **A04**/MF **A01**

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Note on Measurement of Multi-Component Fields.
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AD-A139 213/3 *709,244* PC **A06**/MF **A01**

**AFGL-TR-79-0174**
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AD-A031 775/0 *710,863* PC **A07**/MF **A01**

**AFML-TR-76-139**
Fracture of Brittle Materials at High Temperature.
AD-A032 656/1 *710,618* PC **A02**/MF **A01**

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AD-A029 876/0 *702,765* PC **A02**/MF **A01**

**AFOSR-TR-78-0424**
Off-Diagonal Elements of Normal Matrices.
AD-A052 205/2 *711,915* PC **A02**/MF **A01**

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Implementation of a Capability-Based Data Abstraction.
AD-A053 987/4 *706,954* PC **A02**/MF **A01**

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Ignition of a Liquid Fuel Under High Intensity Radiation.
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**AFOSR-TR-84-0076**
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AD-A101 792/0 *711,916* Not available NTIS

**ARO-16669.25-MA**
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AD-A119 018/0 *712,080* Not available NTIS

**ARO-16810.6-MS**
Double Slip Plane Crack Model.
AD-A127 410/9 *714,706* Not available NTIS

**ARO-16814.19-PH**
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**ARO-16928.2-MA**
Further Devlopments of Rp and Ap Error Analysis.
AD-A123 592/8 *711,917* Not available NTIS

**ARO-16928.3-MA**
Error Analysis of Complex Arithmetic.
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**ARO-17703.2-PH**
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AD-A128 834/9 *714,755* Not available NTIS

**ARO-17710.2-CH**
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**ARO-17710.4-CH**
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**DMDC-1255**
Application of Artificial Radioactive Isotopes in the Study of Diffusion and Self-Diffusion in Alloys (Premenenia Iskustvenno-Padioaktivnickh Isotopov dlia Izutchenia Diffuzii i Samodiffuzii v Splavakh)--Translation.
PB-281 251-T *711,405* PC **A02**/MF **A01**

**DMDC-1534**
X-Ray Study of Reaction Diffusion in the System Zn-Cu. (Rentgenograficeskoe Issledovanie Reakcionnoi Diffozii v Sisteme Medy-Cink)--Translation.
PB-291 482-T *711,427* PC **A02**/MF **A01**

**DMDC-6623**
Estimation of Interaction of Viscosity Sensors with Fluid (K Rascetu Vzaimodepstviya Datcsikov Byazkosti s Zhidkostuyo)--Translation.
PB-291 481-T *714,711* PC **A02**/MF **A01**

**DMDC-8267**
The Diffusion of Co60 in Cobalt Ferrites (Diffuziya Co60 v Ferritakh Kobalta)--Translation.
PB-261 014-T *710,622* PC **A02**/MF **A01**

**DMDC-8274**
The Diffusion of Silver and Lead in Silver Bromide (Opete po Izucheniyu Diffuzii Ionov Serevra i Svintsa v Bromide Serebra)--Translation.
PB-261 013-T *711,081* PC **A02**/MF **A01**

**DMDC-8324**

Experiments on Determination of Average Range of Recoil of Nuclei in Solid Halides of Lead (Opete po Opredeleniu Srednego Probega Yader Otdachi v Tverdekh Galogenidakh Svintsa)--Translation.
PB-281 392-T *703,085* PC **A02**/MF **A01**

**DMDC-11059**

Diffusion of Impurities Along Electron Beam-Induced Defects (O Diffuzii Primesei po Elektronnoluchevm Defektam)--Translation.
PB-261 015-T *713,862* PC **A02**/MF **A01**

**DMDC-11255**

Investigating Diffusion Bonded Joints of Some Heterogeneous Metals by Micro-Radiospectroscopy--Translation.
PB80-192586 *710,033* PC **A02**/MF **A01**

**DMDC-11388**

Calculating Conditions for Pressure Welding (K Voprosu Raschetnoi Otsenki Rezhimov Svarke Davleniem)--Translation.
PB-281 214-T *711,403* PC **A03**/MF **A01**

**DMDC-11389**

Diffusion Welding Austentic Steel with Aluminium and Its Alloys (Diffuzionnaya Svarka Austenitnoi Stali s Aluminiem i Ego Splavami)--Translation.
PB-281 215-T *711,095* PC **A02**/MF **A01**

**DMDC-11393**

Diffusion Vacuum Welding of Magnetic Alloys (Diffuzionnaya Svarka v Vakuume Magnitnekh Splavov)--Translation.
PB-281 216-T *711,404* PC **A02**/MF **A01**

**DMDC-11504**

Theory of the Method for Determining the Diffusion Coefficient at Grain Boundaries--Translation.
PB80-225014 *711,491* PC **A02**/MF **A01**

**DMDC-11506**

X-Ray Study of Reaction Diffusion in Binary Systems Composed of Cu with the Halides, with P, and with Si. (Rentgenograficheskoe Issledovanie Reaktsionnoi Diffuzii v Binarnikh Sistemah, Obrazovanikh Medbu s Galoidami, s Fosforom i Kremniem),
PB-291 483-T *711,428* PC **A03**/MF **A01**

**DMDC-11547**

Mechanism of Reactional Diffusion in the Interaction of Solid Copper with Some Gaseous Elements (K Voprosy o Mekhanizme Reaktsionnoi Diffyzii pri Vzaimodeistvii Tverdoi Medi s Nekotoremi Gazoobraznemi Elementami)--Translation.
PB-283 157-T *711,414* PC **A02**/MF **A01**

**DMDC-11635**

Mutual Diffusion in the Fe-Cu Systems (Vzaimnaya Diffusiya v Sisteme Zhelezo-med)--Translation.
PB-291 484-T *711,429* PC **A02**/MF **A01**

**DMDC-11881**

Diffusion of Iron in Iron-Titanium Alloys (Diffuziya Zheleza v Splavakh Sistemee Fe-Ti)--Translation.
PB-261 016-T *711,082* PC **A02**/MF **A01**

**DMDC-11950**

Study of Low-Melting-Point Metals on the Surface of Copper (Izuchenie Rasprostraneniya Legkoplavkikh Metallov na Poverkhnosti Medi)--Translation.
PB-261 011-T *711,364* PC **A02**/MF **A01**

**DMDC-12184**

Use of Radioactive Isotope to Study the Diffusion of Silver in Copper-Aluminum Alloys (Izsledvane Difuziyata na Srebro v Medno-Aluminievi Splavi s Promoshchta na Radioaktivni Izotopi)--Translation.
PB-291 485-T *711,430* PC **A02**/MF **A01**

**DMDC-12759**

Dependence of Diffusion on the Grain Size (0 Zavisimosti Difuzii ot Razmera Zerna)--Translation.
PB-291 574-T *711,435* PC **A02**/MF **A01**

**DMDC-13051**

Structure of Copper Oxide Copper Scales (O Tcksture v Okaline Medi)--Translation.
PB-280 966-T *711,400* PC **A02**/MF **A01**

**DMDC-13356**

Structure and Properties of Heat Resistant Alloys (Struktura i Svoiestva Zaraoprochnie Splavov)--Translation.
PB-291 571-T *711,433* PC **A14**/MF **A01**

**DMDC-13667**

Galvano-Thermal Production of Protective Copper-Nickel Alloys Coatings. (Gal'vanotermicheskoe Poluchenie Zashchitnekh Pokretii Mednonikelevemi Splavami),
PB-293 375-T *710,819* PC **A02**/MF **A01**

**DMDC-13727**

About Diffusion in Solid Solutions with Varying Concentrations (O Diffuzii v Tverdyh Rastvorah s Peremennoi Koncentraciei)--Translation.
PB-291 488-T *711,432* PC **A02**/MF **A01**

**DMDC-13985**

Alloying of Aluminum Under High-Speed Shock Conditions (Legirovanie Alumeniya Pri Skorostnom Soudarenii)--Translation.
PB-280 764-T *711,389* PC **A02**/MF **A01**

**DMDC-14111**

Determination of the Diffusion by the Technique of Change of Resistance in the System Copper-Nickel Pressed Powders (Vclidzhennya Vnurishn'oi Difuzii za Metodom Electrovidnosti v Sistemakh z Presovanikh Poroshkiv Mid'-Nikel)--Translation.
PB-291 575-T *711,436* PC **A03**/MF **A01**

**DMDC-14112**

X-Ray Diffraction Study of Diffusion in a Mixture of Copper and Nickel Powders Compressed at Various Pressures (Rentgenograficbne Doslidzhennya Difuzii v Sumishi Poroshkiv Midi i Nikelyu, Spresovanikh pri Riznikh Tiskakh)--Translation.
PB-261 012-T *711,080* PC **A02**/MF **A01**

**DMDC-14140**

Mutual Diffusion of Copper and Tin (Kbm Vbprosa za Vzaimnata Difusiya na Medta i Kalaya)--Translation.
PB-291 487-T *711,431* PC **A02**/MF **A01**

**DMDC-14183**

Wall Penetrability of Metal Tubes for Helium (Issledovanie Pronicaemosti Stenok Metallicaseskikh Tpub dlya Geliya)--Translation.
PB-291 582-T *711,101* PC **A02**/MF **A01**

**DMDC-14317**

Diffusion of Silver in Copper-Zinc by Using Radioactive Isotopes (Izsledvane Difuziyata na Srebro v Medno-Tsinkovi Silavi s Iomoshchta na Radioaktivni Izotopi)--Translation.
PB-291 576-T *711,437* PC **A02**/MF **A01**

**DMDC-14419**

Parameters of Diffusion in the Alpha and Beta Modifications of Titanium--Translation.
PB80-157845 *711,469* PC **A02**/MF **A01**

**DMDC-14504**

Internal Oxidation of Alloys--Translation.
PB81-167348 *711,509* PC **A02**/MF **A01**

**DMDC-14948**

Study of Interdiffusion Processes in Powder Metallurgical Bimetals (Islledovania Protsessof Vzaimnoi Diffuzii v Metalokeramicheskikh Bimatallakh)--Translation.
PB-280 765-T *711,094* PC **A02**/MF **A01**

**DMDC-14989**

Investigation of the Stationary Processes of Material Transfer in Copper Selenide (Cu2-xSE)--Translation.
PB80-220700 *711,486* PC **A02**/MF **A01**

**DMDC-15047**

Determination of the Diffusion Coefficient of Metals (Metodi Opredelenia Coeffitsienta Diffugi Mettalov)--Translation.
PB-283 158-T *711,415* PC **A03**/MF **A01**

**DMDC-15049**

Electron Microscopic Autoradiography (Electronmikroskopicheskaya Avtoradiografiya)--Translation.
PB-281 259-T *711,096* PC **A02**/MF **A01**

**DMDC-15120**

Determination of the Diffusion Parameters of Chromium during the Vacuum Chromizing of Low-Carbon Steel--Translation.
PB80-222524 *711,488* PC **A02**/MF **A01**

**DMDC-15455**

Determination of Diffusion Parameters in a Mixture of Two Phases (Opredelenie Parametrov Diffusii v Smesi Dvykh Faz)--Translation.
PB-291 572-T *711,434* PC **A02**/MF **A01**

**DMDC-15735**

Diffusion of Carbon in Alloys of Niobium with Titanium and Zirconium--Translation.
PB81-167330 *711,848* PC **A02**/MF **A01**

**DMDC-15736**

Diffusion of Carbon in Some Alloys of Niobium with Tungsten and Molybdenum--Translation.
PB80-215437 *711,847* PC **A02**/MF **A01**

**DMDC-15768**

Cu in Cu2 Se, Self-Diffusion (Samadiffuziya medi V Selenide medi)--Translation.
PB-281 005-T *711,402* PC **A02**/MF **A01**

**DMDC-15806**

Mechanism of Internal Oxidation of an Fe-Al-Alloy(O Mekhanizme Vnutrannego O Kisleniyo Spleua Zhelezo - Alyuminii),
PB-300 712-T *711,107* PC **A02**/MF **A01**

**DMDC-15861**

Reaction of Tungsten and Molybdenum Metals with Gaseous Oxygen (Vzaimodistvie Resplavov Vol'frama i Molibdena s Gazoobraznym Kislorodom)--Translation.
PB-281 258-T *711,843* PC **A02**/MF **A01**

**DMDC-15992**

Interaction of Impurity Atom with Dislocations in Dilute Copper Solutions (Vzaimodestve Primesnykh Atomov s Dislokatsiyami v Razbavlennykh Rastvorakh Medi)--Translation.
PB-280 967-T *711,401* PC **A02**/MF **A01**

**DMDC-16018**

Oxidation of Diffusion Coatings on a Niobium Alloy (Okiclenic Diffuzionnykh Nokrytii na Splave Niobiya)--Translation.
PB-281 257-T *711,406* PC **A02**/MF **A01**

**DMDC-16221**

Some Methods of Processing Experimental Data in the Determination of a Diffusion Coefficient (O Nekotorekh Sposobakh Obrabotki Eksperimental'nekh Dannekh po Opredeleniu Koeffitsienta Diffuzii)--Translation.
PB-280 766-T *711,390* PC **A03**/MF **A01**

**DMDC-16388**

Mechanism of Oxidation of Copper and the Structure of the Copper Oxide Layers (O Structure Mednoi Okaliny i Mekhanizme Okisleniya Medi)--Translation.
PB-281 527-T *711,410* PC **A02**/MF **A01**

**DMDC-16607**

Reaction and Formation of Copper Oxides at High Temperatures (O Mekhanizme Okisleniya Medi V Vozdushnoi Srede Pri Vysokoi Temperature)--Translation.
PB-281 520-T *711,408* PC **A02**/MF **A01**

**DMDC-16945A**

Diffusion Processes in Metal Welding--Translation.
PB80-212814 *711,129* PC **A03**/MF **A01**

**DMDC-16945B**

Diffusion Processes in Annealing Irradiated Metals--Translation.
PB80-218712 *711,483* PC **A03**/MF **A01**

**DMDC-16945-C**

Elastic Diffusion of Two Pores in an Anisotropic Crystal--Translation.
PB80-224967 *711,490* PC **A02**/MF **A01**

**DMDC-17020**

Diffusion Phenomena and Newly Formed Minerals during the Interaction of Chalcopyrite with Iron Sulfides at 250-600C(Diffuzionnye Yavleniya i Novoo'razovanie Mineralov pri Vzaimodeistoii Khal'kopirita s Sul'fidami Zheleza v Oblasti Temperatur 250-600C)--Translation.
PB-300 713-T *712,647* PC **A02**/MF **A01**

**DMDC-17265**

Adherence of Cuprous Oxide Layer--Translation.
PB80-114556 *710,973* PC **A02**/MF **A01**

**DMDC-17266**

Morphology of Oxides on Copper (Prirode i Svoistvakh Meikristallicheskikh Prolock Zakici Medi)--Translation.
PB-281 519-T *711,407* PC **A02**/MF **A01**

**DMDC-17267**

High Temperature Kinetics of Oxide Formation on Copper (Nckotopye Noprozy Kinetiki Protsessa Okis Leniya Meoli i Rosta Kristallov Zakici Medi)--Translation.
PB-291 581-T *711,438* PC **A02**/MF **A01**

**DMDC-17342**

High Temperature Oxidation of Some Silver-Copper Alloys (Issledovanie Serebyanyh Sulavov, Podvergnuthyh Vnutrennmu Okisleniyu)--Translation.
PB-281 521-T *711,409* PC **A02**/MF **A01**

**DMDC-17352**

Phases Formed in the Interdiffusion Zone of the Ni-Sb System (Issledovanie Reaktsionnoi Diffuzii V Smesi Poroshkov Nikelya I Syur'mi)--Translation.
PB-285 235-T *711,417* PC **A02**/MF **A01**

**DMDC-17361**

Deformation Properties of Some Semiconductors (Tensometricheskie Svoistva Nekotorykh Poluprovodnikov)--Translation.
PB-289 566-T *713,994* PC **A02**/MF **A01**

**DMDC-17494**

Self-Diffusion of Cu in Cu2S(Samodiffuzija medi V Cu2S)--Translation.
PB-278 018-T *711,381* PC **A02**/MF **A01**

**DMDC-17495**

Diffusion of Cu in a Sulfide Scale on Cu(Diffuziya Midi V Sul'fidinoi Okaline na Medi)--Translation.
PB-283 086-T *711,413* PC **A02**/MF **A01**

**DMDC-17513**

Question of Copper Ion Mobility in Germanium (K Voprocy Ob Izuchenii Podvizhnosti Ionov Medi V Germanii)--Translation.
PB-285 284-T *713,972* PC **A02**/MF **A01**

**DMDC-17514**

Method of Formation of Sulfides on Copper (O Mekhanizme Obrazovaniioi CuS Iz Sul'fidov Oduovalentnoe Medi (Cu(2-x)S) i Sery)--Translation.
PB-291 583-T *711,439* PC **A02**/MF **A01**

**DMDC-17517**

Study of the Diffusion of Radioactive Sulfur (Izutchemie Diffuzii Sery V Zeleze Metodom Radioaktiivniyh Isotopov)--Translation.
PB-291 486-T *711,100* PC **A02**/MF **A01**

**DMDC-17714**

Autoradiography (Avtoradiogrfiya)--Translation.
PB-280 955-T *711,398* PC **A03**/MF **A01**

**DMDC-17715**

X-Ray Radiography of Fine Structure (Rentgenograficheskoc Issledovanie Tonkoi Strucktury)--Translation.
PB-289 567-T *711,424* PC **A03**/MF **A01**

**DMDC-17716**

X-Ray Radiography of Alloys (Rentgenospectralnei Analiz)--Translation.
PB-280 928-T *711,396* PC **A02**/MF **A01**

**DMDC-17717**

Electron Diffraction (Electronografiya)--Translation.
PB-280 771-T *711,395* PC **A02**/MF **A01**

**DMDC-17718**

Electronic Microscopy (Elektronnaya Mikroskopia)--Translation.
PB-280 767-T *711,391* PC **A03**/MF **A01**

**DMDC-17719**

Electron Diffraction-Structure Determination (Difrakcionnaya Elektronnaya Mikroskoniya)--Translation.
PB-280 768-T *711,392* PC **A02**/MF **A01**

**DMDC-17720**
Method of Studying Point Defects of a Crystal Lattice Metody Izucheniya Tochechnykh Defektov Kristallicheskoi Reshetki)--Translation.
PB-280 929-T *711,397* PC **A03**/MF **A01**

**DMDC-17721**
High Temperature Microscopy-Methods of Investigating Metallic Thread-Like Crystals (Metody Issledovaniya Metallicheskikh Nitevidniky Kristallov)--Translation.
PB-280 769-T *711,393* PC **A02**/MF **A01**

**DMDC-17722**
Metallography of Metal Solidification - High-Temperature Metallography (Vysokotemperaturnaya Metallografiya)--Translation.
PB-280 770-T *711,394* PC **A02**/MF **A01**

**DMDC-17723**
Fractography (Fractografiya)--Translation.
PB-280 956-T *711,399* PC **A03**/MF **A01**

**DMDC-17724**
Physico-Chemical Analysis of Alloy Phases (Fazovyi Fiziko-Khemicheskii Analiz Splavov)--Translation.
PB-289 601-T *711,426* PC **A06**/MF **A01**

**DMDC-17725**
Identification of Phases by X-Ray Analysis (Fazovyi Rentgenostrukturnyi Analiz)--Translation.
PB-289 570-T *711,425* PC **A03**/MF **A01**

**DMDC-17828**
Thermal Diffusion of Tl in Various Molten Metals--Translation.
PB80-157837 *711,468* PC **A02**/MF **A01**

**DMDC-18224**
Thermal Diffusion of Hydrogen in Titanium Alloy VT-15--Translation.
PB80-124506 *711,464* PC **A02**/MF **A01**

**DMDC-18445**
Investigation of the Scaling Resistance of Some Materials on a Nickel Substrate--Translation.
PB80-220445 *710,660* PC **A02**/MF **A01**

**DMDC-18652**
Diffusion and Self-Diffusion Process in CdTe.HgTe--Translation.
PB80-135015 *714,069* PC **A02**/MF **A01**

**DMDC-18892**
Device for Controlling Sulfiding Process--Translation.
PB80-157944 *702,653* PC **A02**/MF **A01**

**DMDC-19004**
Doping of Cadmium Sulfide Single Crystals with Lithium during the Production of Diffusion Piezoelectrical Transducers(O Legirovanii Monokristallov Sul'fida Kadmiya Litiem Pri Izgotovlenii Diffuzionnykh Akustoelektricheskikh Preo'razovatelei)--Translation.
PB-300 714-T *714,041* PC **A02**/MF **A01**

**DMDC-19005**
Effect of the Parameters of Cadmium Sulfide Starting Material on the Operating Efficiency of Piezoelectric Transducers with a Diffusion Layer(Vliyanie Parametrov Iskhodnogo Materiala Sul'fida Kaprmya na Effektivnost' Paboty P'ezopreobr Azovatelei na Diffuzionnom Sloe)--Translation.
PB-300 718-T *708,018* PC **A02**/MF **A01**

**DMDC-19081**
Influence of Deformation on Diffusion in the Iron-Nickel and Iron-Chromium Systems--Translation.
PB80-213952 *711,130* PC **A02**/MF **A01**

**DMDC-19337**
Effect of Alloying Elements on the Diffusion Mobility of Molybdenum, Manganese and Silicon--Translation.
PB80-164676 *711,117* PC **A02**/MF **A01**

**DMDC-19594**
Increase in the Mobility of Atoms in Metal Systems During Irradiation--Translation.
PB80-220726 *711,487* PC **A02**/MF **A01**

**DMDC-19674**
Effect of the Type of Lattice on the Diffusion of Atoms in Fe-Group Metals --Translation.
PB80-220676 *711,133* PC **A02**/MF **A01**

**DMDC-19675**
Effect of the Concentration of Excess Vacancies on Diffusion Along Grain Boundaries--Translation.
PB81-167322 *711,508* PC **A02**/MF **A01**

**DMDC-20327**
Kinetics of Phase Transformations in the Copper-Zinc System--Translation.
PB80-164239 *711,471* PC **A02**/MF **A01**

**DMDC-20349**
Effect of Irradiation on Diffusion Processes in Metals and Alloys--Translation.
PB80-215387 *711,480* PC **A02**/MF **A01**

**DMDC-20376**
Structure of Hard-Surfacing Cu Alloys on Steel--Translation.
PB80-164668 *711,472* PC **A02**/MF **A01**

**DMDC-20414**
Diffusion of Metals in Alloys--Translation.
PB80-192784 *711,475* PC **A22**/MF **A01**

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PB80-164247 *700,918* PC **A02**/MF **A01**

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**DMDC-20882**
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PB80-158546 *711,470* PC **A02**/MF **A01**

**DMDC-21154**
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PB81-181661 *710,061* PC **A02**/MF **A01**

**DMDC-21426**
Determination of the Diffusion Characteristics of Zinc in Copper According to the Initial Stage of Whiskers Thickening--Translation.
PB80-220684 *711,484* PC **A02**/MF **A01**

**DMDC-21738**
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**DMDC-21934**
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PB80-213945 *711,478* PC **A02**/MF **A01**

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Self-Diffusion of Iron in Iron-Nickel and Iron-Nickel-Chromium Alloys--Translation.
PB80-220460 *711,132* PC **A02**/MF **A01**

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Diffusion of Cobalt, Chromium, and Tungsten in Iron and Steel--Translation.
PB80-168073 *711,118* PC **A02**/MF **A01**

**DMDC-23002**
Influence of Carbon on the Self-Diffusion of Iron in the Iron-Nickel System--Translation.
PB80-168081 *711,119* PC **A02**/MF **A01**

**DMDC-23003**
Influence of Manganese on the Self-Diffusion of Iron--Translation.
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**DMDC-23004**
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Study of alpha-Iron Self-Diffusion--Translation.
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**DMDC-23007**
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PB80-180987 *711,127* PC **A03**/MF **A01**

**DMDC-23008**
Self-Diffusion of Tantalum--Translation.
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**DMDC-23387**
Diffusion in Titanium and Titanium-Base Alloys--Translation.
PB80-216930 *711,481* PC **A02**/MF **A01**

**DMDC-23388**
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PB80-216567 *711,131* PC **A03**/MF **A01**

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Diffusion of Zirconium and Tin in an alpha-Zirconium-Tin Alloy--Translation.
PB80-138803 *711,467* PC **A02**/MF **A01**

**DMDC-40003B**
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PB80-138456 *711,465* PC **A02**/MF **A01**

**DMDC-40003C**
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PB80-138787 *711,845* PC **A02**/MF **A01**

**DMDC-40003D**
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PB-264 893/9 *709,090* PC **A07**/MF **A01**

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PB85-152288 *707,419* CP **T02**

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**FIPS PUB 29-1**
Interpretation Procedures for Federal Information Processing Standard Programming Languages.
FIPS PUB 29-1 *707,317* PC **A02**/MF **A01**

**FIPS PUB 29-2**
Interpretation Procedures for Federal Information Processing Standards for Software. Category: Software Standard. Subcategory: Graphics.
FIPS PUB 29-2 *707,318* PC **A02**/MF **A01**

**FIPS PUB 32-1**
Character Sets for Optical Character Recognition (OCR). Category: Hardware Standard. Subcategory: Character Recognition.
FIPS PUB 32-1 *707,319* PC **A07**

**FIPS PUB 33-1**
Character Set for Handprinting. Category: Hardware Standard. Subcategory: Character Recognition.
FIPS PUB 33-1 *707,320* PC **A03**

**FIPS-PUB-42-1**
Guidelines for Benchmarking ADP Systems in the Competitive Procurement Environment.
FIPS-PUB-42-1 *707,321* PC **A03**/MF **A01**

**FIPS-PUB-46**
Data Encryption Standard. Category: ADP Operations. Subcategory: Computer Security.
FIPS-PUB-46 *706,961* PC **A02**/MF **A01**

**FIPS-PUB-47**
Federal Standard COBOL Pocket Guide.
FIPS-PUB-47 *706,962* PC **A03**/MF **A01**

**FIPS-PUB-48**
Guidelines on Evaluation of Techniques for Automated Personal Identification.
FIPS-PUB-48 *706,872* PC **A02**/MF **A01**

**FIPS-PUB-49**
Guideline on Computer Performance Management: An Introduction.
FIPS-PUB-49 *707,322* PC **A02**/MF **A01**

**FIPS-PUB-50**
Recorded Magnetic Tape for Information Interchange, 6250 cpi (246 cpmm), Group Coded Recording.
FIPS-PUB-50 *707,324* PC **A03**/MF **A01**

**FIPS-PUB-51**
Magnetic Tape Cassettes for Information Interchange (3.810 mm(0.150 in) Tape at 32 bpmm (800 bpi), PE).
FIPS-PUB-51 *707,325* PC **A03**/MF **A01**

**FIPS PUB 52**
Recorded Magnetic Tape Cartridge for Information Interchange, 4-Track, 6.30 mm (1/4 in), 63 bpmm (1600 bpi), PHASE ENCODED. Category: Hardware Standard. Subcategory: Interchange Codes and Media.
FIPS PUB 52 *707,326* PC **A02**

**FIPS PUB 53**
Transmittal Form for Describing Computer Magnetic Tape File Properties.
FIPS PUB 53 *707,327* PC **A02**/MF **A01**

**FIPS PUB 54**
Computer Output Microform (COM) Formats and Reduction Ratios, 16 mm and 105 mm.

FIPS PUB 54 *707,328* PC **A02**/MF **A01**

**FIPS PUB 55**

Codes for Named Population Places, Primary County Divisions, and Other Locational Entities of the United States (Second Printed Version): Guidelines.
FIPS PUB 55 *707,329* PC **E15**/MF **E15**
Codes for Named Populated Places, Primary County Divisions, and Other Locational Entities of the United States (FIPS PUB 55), 7th Update.
PB85-152312 *707,420* CP **T02**
Codes for Named Populated Places, Primary County Divisions, and Other Locational Entities of the United States (FIPS PUB 55), 8th Update.
PB86-154002 *710,327* CP **T02**

**FIPS PUB 55-2**

Guideline: Codes for Named Populated Places, Primary County Divisions, and Other Locational Entities of the United States and Outlying Areas. Category: Data Standards and Guidelines. Subcategory: Representations and Codes.
FIPS PUB 55-2 *710,349* PC **A03**/MF **A01**

**FIPS PUB 55 DC-4**

Guideline: Codes for Named Populated Places, Primary County Divisions, and Other Locational Entities of the United States and Outlying Areas. The Fourth Printed Version and Ninth Update Tape.
FIPS PUB 55 DC-4 *715,739* PC **E99**

**FIPS PUB 56**

Guideline for Managing Multivendor Plug-Compatible ADP Systems.
FIPS PUB 56 *707,330* PC **A02**/MF **A01**

**FIPS PUB 57**

Guidelines for the Measurement of Interactive Computer Service Response Time and Turnaround Time. Category: ADP Operations. Subcategory: Computer Performance Management.
FIPS PUB 57 *707,331* PC **A03**/MF **A01**

**FIPS PUB 58**

Representations of Local Time of the Day for Information Interchange. Federal General Data Standard Representations and Codes.
FIPS PUB 58 *707,332* PC **A02**

**FIPS PUB 59**

Representations of Universal Time, Local Time Differentials, and United States Time Zone References for Information Interchange. Federal General Data Standard Representations and Codes.
FIPS PUB 59 *707,333* PC **A02**

**FIPS PUB 60**

I/O Channel Interface. Category: Hardware Standard. Subcategory: Interface.
FIPS PUB 60 *707,335* PC **A05**/MF **A01**

**FIPS PUB 60-1**

I/O Channel Interface. Category: Hardware Standard. Subcategory: Interface.
FIPS PUB 60-1 *707,336* PC **A05**/MF **A01**

**FIPS PUB 60-2**

I/O Channel Interface. Category: Hardware Standard. Subcategory: Interface.
FIPS PUB 60-2 *706,873* PC **A06**/MF **A01**

**FIPS PUB 61**

Channel Level Power Control Interface. Category: Hardware Standard. Subcategory: Interface.
FIPS PUB 61 *707,337* PC **A02**/MF **A01**

**FIPS PUB 61-1**

Channel Level Power Control Interface. Category: Hardware Standard. Subcategory: Interface.
FIPS PUB 61-1 *707,338* PC **A02**/MF **A01**

**FIPS PUB 62**

Operational Specifications for Magnetic Tape Subsystems. Category: Interface Standard.
FIPS PUB 62 *707,339* PC **A04**/MF **A01**

**FIPS PUB 63**

Operational Specifications for Rotating Mass Storage Subsystems. Category: Hardware Standard. Subcategory: Interface.
FIPS PUB 63 *707,340* PC **A07**/MF **A01**

**FIPS PUB 63-1**

Operational Specifications for Variable Block Rotating Mass Storage Subsystems. Category: Hardware Standard. Subcategory: Interface.
FIPS PUB 63-1 *707,341* PC **A04**/MF **A01**

**FIPS PUB 63-1 SUP**

Additional Operational Specifications for Variable Block Rotating Mass Storage Devices (Supplement).
FIPS PUB 63-1 SUP *707,342* PC **A04**/MF **A01**

**FIPS-PUB-64**

Guidelines for Documentation of Computer Programs and Automated Data Systems for the Initiation Phase. Category: Software. Subcategory: Documentation.
FIPS-PUB-64 *707,343* PC **A03**/MF **A01**

**FIPS PUB 65**

Guideline for Automatic Data Processing Risk Analysis. Category: ADP Operations. Subcategory: Computer Security.
FIPS PUB 65 *707,459* PC **A03**/MF **A01**

**FIPS PUB 66**

Standard Industrial Classification (SIC) Codes. Federal General Data Standard Representations and Codes.
FIPS PUB 66 *701,973* PC **A03**/MF **A01**

**FIPS PUB 67**

Guideline for Selection of Data Entry Equipment.
FIPS PUB 67 *706,874* PC **A03**/MF **A01**

**FIPS PUB 68**

Minimal BASIC. Category: Software Standard. Subcategory: Programming Language.
FIPS PUB 68 *707,344* PC **A04**

**FIPS PUB 69**

FORTRAN. Category: Software Standard. Subcategory: Programming Language.
FIPS PUB 69 *707,345* PC **E13**

**FIPS PUB 69-1**

FORTRAN. Category: Software Standard. Subcategory: Programming Language.
FIPS PUB 69-1 *707,346* PC **E13**

**FIPS PUB 70**

Representation of Geographic Point Locations for Information Interchange. Federal General Data Standard Representations and Codes.
FIPS PUB 70 *707,347* PC **A02**/MF **A01**

**FIPS PUB 70-1**

Representation of Geographic Point Locations for Information Interchange. Category: Data Standards and Guidelines. Subcategory: Representations and Codes; Earth Science Series.
FIPS PUB 70-1 *707,348* PC **E05**

**FIPS PUB 71**

Advanced Data Communication Control Procedures (ADCCP). Category: Hardware. Subcategory: Data Transmission.
FIPS PUB 71 *706,692* PC **E07**

**FIPS PUB 72**

Guidelines for the Measurement of Remote Batch Computer Service. Category: ADP Operations. Subcategory: Computer Performance Management.
FIPS PUB 72 *707,349* PC **A03**/MF **A01**

**FIPS PUB 73**

Guidelines for Security of Computer Applications. Category: ADP Operations. Subcategory: Computer Security.
FIPS PUB 73 *707,350* PC **A04**/MF **A01**

**FIPS PUB 74**

Guidelines for Implementing and Using the NBS Data Encryption Standard.
FIPS PUB 74 *707,351* PC **A03**/MF **A01**

**FIPS PUB 75**

Guideline on Constructing Benchmarks for ADP System Acquisitions. Category: ADP Operations. Subcategory: Benchmarking for Computer Selection.
FIPS PUB 75 *707,352* PC **A03**/MF **A01**

**FIPS PUB 76**

Guideline for Planning and Using a Data Dictionary System. Category: Software. Subcategory: Data Management Applications.
FIPS PUB 76 *710,252* PC **A02**/MF **A01**

**FIPS PUB 77**

Guideline for Planning and Management of Database Applications. Category: Software. Subcategory: Data Management Applications.
FIPS PUB 77 *707,353* PC **A04**/MF **A01**

**FIPS PUB 78**

Guideline for Implementing Advanced Data Communication Control Procedures (ADCCP). Category: Hardware. Subcategory: Data Transmission.
FIPS PUB 78 *707,354* PC **A03**/MF **A01**

**FIPS PUB 79**

Magnetic Tape Labels and File Structure for Information Interchange. Category: Software Standard. Subcategory: Operating Procedures.
FIPS PUB 79 *707,355* PC **E05**

**FIPS PUB 80**

Guide for the Implementation of Federal Information Processing Standards (FIPS) in the Acquisition and Design of Computer Products and Services.
FIPS PUB 80 *707,357* PC **A05**/MF **A01**

**FIPS PUB 81**

DES Modes of Operation.
FIPS PUB 81 *707,358* PC **A03**/MF **A01**

**FIPS PUB 82**

Guideline for Inspection and Quality Control for Alphanumeric Computer-Output Microforms. Category: Hardware. Subcategory: Media.
FIPS PUB 82 *707,359* PC **E06**

**FIPS PUB 83**

Guideline on User Authentication Techniques for Computer Network Access Control. Category: ADP Operations. Subcategory: Computer Security.
FIPS PUB 83 *706,693* PC **A03**/MF **A01**

**FIPS PUB 84**

Microfilm Readers. Category: Hardware Standard. Subcategory: Computer Output Microfilm Readers.
FIPS PUB 84 *710,414* PC **E04**

**FIPS PUB 85**

Optical Character Recognition (OCR) Inks. Category: Hardware Standard. Subcategory: Character Recognition.
FIPS PUB 85 *707,360* PC **A03**

**FIPS PUB 86**

Additional Controls for Use with American National Standard Code for Information Interchange: Category: Hardware Standard. Subcategory: Interchange Codes and Media.
FIPS PUB 86 *707,361* PC **E06**

**FIPS PUB 87**

Guidelines for ADP (Automatic Data Processing) Contingency Planning. Category: ADP Operations. Subcategory: Computer Security.
FIPS PUB 87 *707,362* PC **A03**/MF **A01**

**FIPS PUB 88**

Guideline on Integrity Assurance and Control in Database Administration.
FIPS PUB 88 *707,363* PC **A05**/MF **A01**

**FIPS PUB 89**

Optical Character Recognition (OCR) Character Positioning.
FIPS PUB 89 *707,364* PC **A02**

**FIPS PUB 90**

Guidelines for Optical Character Recognition (OCR) Print Quality. Category: Hardware Standard. Subcategory: Character Recognition.
FIPS PUB 90 *707,365* PC **A03**

**FIPS PUB 91**

Magnetic Tape Cassettes for Information Interchange, Dual Track Complementary Return-to-Bias (CRB) Four-States Recording on 3.81-mm (0.150-in) Tape.
FIPS PUB 91 *707,366* PC **A02**

**FIPS PUB 92**

Guideline for Standard Occupational Classification (SOC) Codes.
FIPS PUB 92 *707,367* PC **A03**/MF **A01**

**FIPS PUB 93**

Parallel Recorded Magnetic Tape Cartridge for Information Interchange, 4-Track, 6.30 mm (1/4 in), 63 bpmm (1600 bpi), Phase Encoded. Category: Hardware Standard. Subcategory: Interchange Codes and Media.
FIPS PUB 93 *707,368* PC **A02**/MF **A01**

**FIPS PUB 94**

Guideline on Electrical Power for ADP Installations. Category: Hardware. Subcategory: Power, Grounding, and Life-Safety.
FIPS PUB 94 *707,369* PC **A06**/MF **A01**

**FIPS PUB 95**

Codes for the Identification of Federal and Federally-Assisted Organizations. Federal General Data Standard Representations and Codes.
FIPS PUB 95 *700,084* PC **A05**/MF **A01**

**FIPS PUB 96**

Guideline for Developing and Implementing a Charging System for Data Processing Services. Category: ADP Operations. Subcategory: Computer Performance Management.
FIPS PUB 96 *707,370* PC **A05**/MF **A01**

**FIPS PUB 97**

Operational Specifications for Fixed Block Rotating Mass Storage Subsystems. Category: Hardware Standard. Subcategory: Interface.
FIPS PUB 97 *707,371* PC **A05**/MF **A01**

**FIPS PUB 98**

Message Format for Computer-Based Message Systems. Category: Software Standard. Subcategory: Interchange Codes, Media, and Data Files.
FIPS PUB 98 *706,963* PC **A04**/MF **A01**

**FIPS PUB 99**

Guideline: A Framework for the Evaluation and Comparison of Software Development Tools. Category: Software. Subcategory: Software Engineering.
FIPS PUB 99 *707,372* PC **A03**/MF **A01**

**FIPS PUB 100**

Interface between Data Terminal Equipment (DTE) and Data Circuit-Terminating Equipment (DCE) for Operation with Packet-Switched Data Communications Networks. Category: Hardware Standard. Subcategory: Data Transmission.
FIPS PUB 100 *707,290* PC **A02**/MF **A01**

**FIPS PUB 101**

Guideline for Lifecycle Validation, Verification, and Testing of Computer Software. Category: Software. Subcategory: Validation, Verification, and Testing.
FIPS PUB 101 *707,291* PC **A03**/MF **A01**

**FIPS PUB 102**

Guideline for Computer Security Certification and Accreditation. Category: ADP (Automatic Data Processing) Operations. Subcategory: Computer Security.
FIPS PUB 102 *707,458* PC **A05**/MF **A01**

**FIPS PUB 103**

Codes for the Identification of Hydrologic Units in the United States and the Caribbean Outlying Areas. Category: Data Standards and Guidelines. Subcategory: Representations and Codes; Earth Science Series.
FIPS PUB 103 *712,635* PC **A07**/MF **A01**

**FIPS PUB-104**

Implementation of ANSI (American National Standards Institute) Codes for the Representation of Names of Countries, Dependencies, and Areas of Special Sovereignty for Information Interchange (FIPS PUB 104).
PB85-226918 *710,432* CP **T02**

**FIPS PUB 104-1**

American National Standard Codes for the Representation of Names of Countries, Dependencies, and Areas of Special Sovereignty for Information Interchange. Category: Data Standards and Guidelines. Subcategory: Representations and Codes.
FIPS PUB 104-1 *707,292* PC **A02**/MF **A01**

**FIPS PUB 105**

Guideline for Software Documentation Management. Category: Software. Subcategory: Documentation.
FIPS PUB 105 *706,960* PC **A03**/MF **A01**

**FIPS PUB 106**
Guideline on Software Maintenance. Category: Software. Subcategory: Software Maintenance.
FIPS PUB 106 *707,293* PC **A02**/MF **A01**

**FIPS PUB 107**
Local Area Networks: Baseband Carrier Sense Multiple Access with Collision Detection Access Method and Physical Layer Specifications and Link Layer Protocol. Category: Software and Hardware Standard. Subcategory: Computer Network Protocols.
FIPS PUB 107 *700,001* PC **E14**

**FIPS PUB 108**
Alphanumeric Computer Output Microform Quality Test Slide. Category: Hardware Standard. Subcategory: Media.
FIPS PUB 108 *707,294* PC **A02**

**FIPS PUB 109**
Pascal Computer Programming Language. Category: Software Standard. Subcategory: Programming Language.
FIPS PUB 109 *707,295* PC **E08**

**FIPS PUB 110**
Guideline for Choosing a Data Management Approach. Category: Software. Subcategory: Data Management Applications.
FIPS PUB 110 *707,296* PC **A03**/MF **A01**

**FIPS PUB 111**
Storage Module Interfaces (with Extensions for Enhanced Storage Module Interfaces). Category: Hardware Standard. Subcategory: Interface.
FIPS PUB 111 *707,297* PC **A03**

**FIPS PUB 112**
Password Usage. Category: ADP Operations. Subcategory: Computer Security.
FIPS PUB 112 *707,298* PC **A04**/MF **A01**

**FIPS PUB 113**
Computer Data Authentication. Category: ADP Operations. Subcategory: Computer Security.
FIPS PUB 113 *707,299* PC **A02**/MF **A01**

**FIPS PUB 114**
200 MM (8 in) Flexible Disk Cartridge Track Format Using Two-Frequency Recording at 6631 BPRAD on One Side - 1.9 TPMM (48 TPI) for Information Interchange. Category: Hardware Standard. Subcategory: Interchange Codes and Media.
FIPS PUB 114 *706,867* PC **E06**

**FIPS PUB 115**
200 MM (8 in) Flexible Disk Cartridge Track Format Using Modified Frequency Modulation Recording at 13262 BPRAD on Two Sides - 1.9 TPMM (48 TPI) for Information Interchange. Category: Hardware Standard. Subcategory: Interchange Codes and Media.
FIPS PUB 115 *706,868* PC **E07**

**FIPS PUB 116**
130 MM (5.25 in) Flexible Disk Cartridge Track Format Using Two-Frequency Recording at 3979 BPRAD on One Side - 1.9 TPMM (48 TPI) for Information Interchange. Category: Hardware Standard. Subcategory: Interchange Codes and Media.
FIPS PUB 116 *706,869* PC **E07**

**FIPS PUB 117**
130 MM (5.25 in) Flexible Disk Cartridge Track Format Using Modified Frequency Modulation Recording at 7958 BPRAD on Two Sides - 1.9 TPMM (48 TPI) for Information Interchange. Category: Hardware Standard. Subcategory: Interchange Codes and Media.
FIPS PUB 117 *706,870* PC **E07**

**FIPS PUB 118**
Flexible Disk Cartridge Labelling and File Structure for Information Interchange. Category: Software Standard. Subcategory: Operating Procedure.
FIPS PUB 118 *706,871* PC **E12**

**FIPS PUB 119**
Ada. Category: Software Standard. Subcategory: Programming Language.
FIPS PUB 119 *707,300* PC **E08**

**FIPS PUB 120**
Graphical Kernel System (GKS). Category: Software Standard. Subcategory: Graphics.
FIPS PUB 120 *707,301* PC **E13**

**FIPS PUB 121**
Videotex/Teletext Presentation Level Protocol Syntax (North American PLPS). Category: Hardware and Software Standard. Subcategory: Interchange Codes.
FIPS PUB 121 *707,302* PC **E06**

**FIPS PUB 122**
Conformance Tests for FIPS PUB 100/FED-STD 1041 Version of CCITT 1980 Recommendation X.25, Interface between Data Terminal Equipment (DTE) and Data Circuit-Terminating Equipment (DCE) for Operation with Packet-Switched Data Communications Networks. Category: Conformance Tests.
FIPS PUB 122 *707,303* PC **E05**/MF **A01**

**FIPS PUB 123**
Specification for a Data Descriptive File for Information Interchange (DDF). Category: Software Standard. Subcategory: Information Interchange.
FIPS PUB 123 *707,304* PC **E04**

**FIPS PUB 124**
Guideline on Functional Specifications for Database Management Systems. Category: Software. Subcategory: Data Management Applications.
FIPS PUB 124 *707,305* PC **A03**/MF **A01**

**FIPS PUB 125**
MUMPS. Category: Software Standard. Subcategory: Programming Language.
FIPS PUB 125 *707,306* PC **E11**

**FIPS PUB 126**
Database Language NDL (Network Database Language). Category: Software Standard. Subcategory: Database.
FIPS PUB 126 *707,307* PC **E11**

**FIPS PUB 127**
Database Language SQL (Structured Query Language). Category: Software Standard. Subcategory: Database.
FIPS PUB 127 *707,308* PC **E10**

**FIPS PUB 128**
Computer Graphics Metafile (CGM). Category: Software Standard. Subcategory: Graphics.
FIPS PUB 128 *707,309* PC **E13**

**FIPS PUB 129**
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PB-250 063/5 *715,658* PC **A04**/MF **A01**

**FRA/ORD-75/48**
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Atomic Weight of Gallium,
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(Order as PB-270 044/1, PC **A11**/MF **A01**)

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Vapor Pressure Formulation for Ice,
PB-270 046/6 *702,871*
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**JNBAAR-81A(1)-3**
Standard pH Values for the Potassium Hydrogen Phthalate Reference Buffer Solution from 0 to 60 Degrees C.
PB-270 047/4 *706,225*
(Order as PB-270 044/1, PC **A11**/MF **A01**)

**JNBAAR-81A(1)-4**
Atlas of the I2 Spectrum from 19 000 to 18 000/cm,
PB-270 048/2 *702,872*
(Order as PB-270 044/1, PC **A11**/MF **A01**)

**JNBAAR-81A(1)-5**
NBS Two-Pressure Humidity Generator, Mark 2.
PB-270 049/0 *706,226*
(Order as PB-270 044/1, PC **A11**/MF **A01**)

**JNBAAR-81A(1)-6**
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PB-270 050/8 *706,227*
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**JNBAAR-81A(1)-7**
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PB80-176902 *707,034* PC **A03**/MF **A01**

**NBS-GCR-80-200**

Examination and Analysis of the Dynamics of the Human Behavior in the Fire Incident at the Taylor House on April 11, 1979.
PB80-179054 *700,706* PC **A03**/MF **A01**

**NBS-GCR-80-202**

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PB80-192800 *706,364* PC **A05**/MF **A01**

**NBS/GCR-80-203**

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PB80-192875 *707,898* PC **A06**/MF **A01**

**NBS-GCR-80-204**

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PB82-170499 *709,748* PC **A02**/MF **A01**

**NBS-GCR-80-205**

Examination and Analysis of the Dynamics of the Human Behavior in the Fire Incident at the Sacred Heart Home, March 19, 1978.
PB80-183213 *700,709* PC **A03**/MF **A01**

**NBS-GCR-80-206**

Examination and Analysis of the Dynamics of the Human Behavior in the Fire Incident at the Manor Care, Hyattsville Nursing Home on January 10, 1978.
PB80-183221 *700,710* PC **A04**/MF **A01**

**NBS-GCR-80-207**

Examination and Analysis of the Dynamics of the Human Behavior in the Kitchen Fire Incident at the Manor Care, Adelphi (Maryland) Nursing Home on March 1, 1978.
PB80-185739 *700,711* PC **A03**/MF **A01**

**NBS-GCR-80-208**

Examination and Analysis of the Dynamics of the Human Behavior in the Patient Room Fire Incident at the Manor Care, Adelphi Nursing Home on March 1, 1978.
PB80-183205 *700,708* PC **A03**/MF **A01**

**NBS-GCR-80-209**

Examination and Analysis of the Dynamics of the Human Behavior in the Fire Incident at the Harford Memorial Hospital on March 9, 1978.
PB80-181654 *700,707* PC **A03**/MF **A01**

**NBS-GCR-80-210**

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PB80-202393 *706,712* PC **A05**/MF **A01**

**NBS-GCR-80-211**

Examination and Analysis of the Dynamics of the Human Behavior in the Fire Incident at the Magnolia Gardens Nursing Home on April 2, 1978.
PB80-187578 *700,713* PC **A03**/MF **A01**

**NBS-GCR-80-212**

Examination and Analysis of the Dynamics of the Human Behavior in the Fire Incidents at the University of Maryland Hospital on April 26 to May 8, 1978.
PB80-185770 *700,712* PC **A02**/MF **A01**

**NBS-GCR-80-213**

Examination and Analysis of the Dynamics of the Human Behavior in the Fire Incident at the Anne Arundel General Hospital on May 1, 1978.
PB80-187859 *700,714* PC **A03**/MF **A01**

**NBS-GCR-80-214**

Examination and Analysis of the Dynamics of the Human Behavior in the Fire Incident at the Lorien Nursing Home on May 7, 1978.
PB80-187917 *700,716* PC **A03**/MF **A01**

**NBS-GCR-80-215**

Examination and Analysis of the Dynamics of the Human Behavior in the Fire Incident at the Manor Care, Largo Nursing Home on May 9, 1978.
PB80-187909 *700,715* PC **A03**/MF **A01**

**NBS/GCR-80/216**

Examination and Analysis of the Dynamics of the Human Behavior in the Fire Incident at the American Nursing Home and Convalescent Center on May 11, 1978.
PB80-192677 *700,720* PC **A03**/MF **A01**

**NBS/GCR-80-217**

Examination and Analysis of the Dynamics of the Human Behavior in the Fire Incident at the Ann Arundel General Hospital on May 11, 1978.
PB80-192669 *700,719* PC **A03**/MF **A01**

**NBS/GCR-80-218**

Examination and Analysis of the Dynamics of the Human Behavior in the Fire Incident at the Allegany County Infirmary on May 16, 1978.
PB80-194863 *700,722* PC **A03**/MF **A01**

**NBS/GCR-80-219**
Examination and Analysis of the Dynamics of the Human Behavior in the Fire Incident at the Sligo Gardens Nursing Home on June 10, 1978.
PB80-191018 *700,718* PC **A03**/MF **A01**

**NBS/GCR-80/220**
Examination and Analysis of the Dynamics of the Human Behavior in the Fire Incident at the Avalon Manor Convalescent Center on June 16, 1978.
PB80-191000 *700,717* PC **A03**/MF **A01**

**NBS-GCR-80-221**
Examination and Analysis of the Dynamics of the Human Behavior in the Fire Incident at the St. Annes Infant Home on June 20, 1978.
PB80-197262 *700,729* PC **A03**/MF **A01**

**NBS-GCR-80-222**
Examination and Analysis of the Dynamics of the Human Behavior in the Fire Incident at the Maryland General Hospital on August 8, 1978.
PB80-195704 *700,724* PC **A03**/MF **A01**

**NBS-GCR-80-223**
Examination and Analysis of the Dynamics of the Human Behavior in the Fire Incident at the Manor Care, Largo Nursing Home on August 14, 1978.
PB80-195605 *700,723* PC **A03**/MF **A01**

**NBS-GCR-80-224**
Examination and Analysis of the Dynamics of the Human Behavior in the Fire Incident at the North Arundel Hospital on September 4, 1978.
PB80-197254 *700,728* PC **A03**/MF **A01**

**NBS-GCR-80-225**
Examination and Analysis of the Dynamics of the Human Behavior in the Fire Incident at the Manor Care, Towson Nursing Home on October 18, 1978.
PB80-194293 *700,721* PC **A03**/MF **A01**

**NBS-GCR-80-226**
Examination and Analysis of the Dynamics of the Human Behavior in the Fire Incident at the Lafayette Square Nursing Center on October 24, 1978.
PB80-195621 *700,785* PC **A03**/MF **A01**

**NBS-GCR-80-227**
Examination and Analysis of the Dynamics of the Human Behavior in the Fire Incidents at the Sheppard and Enoch Pratt Hospital on October 25 and 26, 1978.
PB80-195944 *700,726* PC **A03**/MF **A01**

**NBS-GCR-80-228**
Examination and Analysis of the Dynamics of the Human Behavior in the Fire Incident at the Anne Arundel General Hospital on November 14, 1978.
PB80-195811 *700,725* PC **A03**/MF **A01**

**NBS-GCR-80-229**
Examination and Analysis of the Dynamics of the Human Behavior in the Fire Incident at the Washington Adventist Hospital on December 9, 1978.
PB80-196025 *700,727* PC **A03**/MF **A01**

**NBS-GCR-80-230**
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PB80-199235 *700,731* PC **A03**/MF **A01**

**NBS-GCR-80-231**
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PB80-207905 *700,744* PC **A03**/MF **A01**

**NBS-GCR-80-232**
Examination and Analysis of the Dynamics of the Human Behavior in the Fire Incident at the Southern Maryland Hospital Center on January 2, 1979.
PB80-207343 *700,741* PC **A03**/MF **A01**

**NBS-GCR-80-233**
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PB80-208986 *700,745* PC **A03**/MF **A01**

**NBS-GCR-80-234**
Examination and Analysis of the Dynamics of the Human Behavior in the Fire Incident at the University of Maryland Hospital on February 6, 1979.
PB80-204993 *700,735* PC **A03**/MF **A01**

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PB80-207897 *700,743* PC **A03**/MF **A01**

**NBS-GCR-80-236**
Examination and Analysis of the Dynamics of the Human Behavior in the Fire Incident at the Pikesville Nursing and Convalescent Center on February 8, 1979.
PB80-204985 *700,734* PC **A02**/MF **A01**

**NBS-GCR-80-237**
Examination and Analysis of the Dynamics of the Human Behavior in the Fire Incident at the Ellicott City Middle School on February 14, 1979.
PB80-207889 *700,742* PC **A03**/MF **A01**

**NBS-GCR-80-238**
Examination and Analysis of the Dynamics of the Human Behavior in the Fire Incident at the Hidden Brook Treatment Center on February 15, 1979.
PB80-209059 *700,746* PC **A03**/MF **A01**

**NBS-GCR-80-239**
Examination and Analysis of the Dynamics of the Human Behavior in the Fire Incident at the Montgomery General Hospital on March 28, 1979.
PB80-207335 *700,740* PC **A03**/MF **A01**

**NBS-GCR-80-240**
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PB80-205651 *700,736* PC **A03**/MF **A01**

**NBS-GCR-80-241**
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PB80-207236 *700,739* PC **A03**/MF **A01**

**NBS-GCR-80-242**
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PB80-207228 *700,738* PC **A03**/MF **A01**

**NBS-GCR-80-243**
Examination and Analysis of the Dynamics of the Human Behavior in the Fire Incident at the Maryland Masonic Home on June 21, 1979.
PB80-203672 *700,732* PC **A03**/MF **A01**

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PB80-218076 *700,747* PC **A03**/MF **A01**

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PB80-218084 *700,748* PC **A02**/MF **A01**

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PB80-218092 *700,749* PC **A03**/MF **A01**

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PB80-218100 *700,750* PC **A03**/MF **A01**

**NBS-GCR-80-265**
Examination and Analysis of the Dynamics of the Human Behavior in the Fire Incident at the Crownsville Hospital Center on August 19, 1979.
PB80-218118 *700,751* PC **A03**/MF **A01**

**NBS-GCR-80-266**
Examination and Analysis of the Dynamics of the Human Behavior in the Fire Incident at the Mt. Wilson Center on September 4, 1979.
PB80-218357 *700,752* PC **A03**/MF **A01**

**NBS/GCR-80-267**
Examination and Analysis of the Dynamics of the Human Behavior in the Fire Incident at the Thomas B. Finan Center on September 9, 1979.
PB80-218845 *700,760* PC **A03**/MF **A01**

**NBS-GCR-80-268**
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PB80-218415 *700,758* PC **A03**/MF **A01**

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**NBS-GCR-80-270**
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PB80-224090 *700,763* PC **A03**/MF **A01**

**NBS-GCR-80-273**
Examination and Analysis of the Dynamics of the Human Behavior in the Fire Incident at the Fallston General Hospital January 27, 1980.
PB80-218399 *700,756* PC **A03**/MF **A01**

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PB80-224918 *700,764* PC **A02**/MF **A01**

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PB80-218373 *700,754* PC **A03**/MF **A01**

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PB80-218365 *700,753* PC **A03**/MF **A01**

**NBS-GCR-80-277**
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PB81-158651 *711,742* PC **A05**/MF **A01**

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PB-291 733/4 *707,579* PC **A04**/MF **A01**

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PB-294 049/2 *713,304* PC **A03**/MF **A01**

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**NBS-TN-1030**
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**NBS/TN-1199**
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PB84-234509 *706,436* PC **A03**/MF **A01**

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**NBS/TN-1202**
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**NBS/TN-1203**
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**NBS/TN-1204**
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PB86-132032 *708,380* PC **A06**/MF **A01**

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PB85-156560 *701,556* PC **A06**/MF **A01**

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PB85-183390 *705,166* PC **A03**/MF **A01**

**NBS/TN-1207**
NBS (National Bureau of Standards) Reactor: Summary of Activities July 1983 through June 1984.
PB85-184836 *714,465* PC **A08**/MF **A01**

**NBS/TN-1208**
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PB85-191955 *707,177* PC **A04**/MF **A01**

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PB85-195311 *701,559* PC **A04**/MF **A01**

**NBS/TN-1211**
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PB85-227080 *710,743* PC **A05**/MF **A01**

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**NBS/TN-1216**
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**NBS/TN-1217**
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PB86-167863 *714,550* PC **A09**/MF **A01**

**NBS/TN-1218**
Modeling of a Heat Pump Charged with a Non-Azeotropic Refrigerant Mixture.
PB86-168267 *708,758* PC **A17**/MF **A01**

**NBS/TN-1219**
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PB86-239969 *713,085* PC **A08**/MF **A01**

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NBS (National Bureau of Standards) 50 kHz Phase Angle Calibration Standard.
PB86-201274 *710,229* PC **A05**/MF **A01**

**NBS/TN-1221**
NBS (National Bureau of Standards) Wideband Sampling Wattmeter.
PB87-210324 *708,467* PC **A06**/MF **A01**

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PB86-223104 *701,890* PC **A05**/MF **A01**

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PB86-247632 *702,444* PC **A03**/MF **A01**

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Parametric Cost-Revenue Model ('PAREC') for Electronic Message Service Systems,
PB87-148490 *706,774* PC **A05**/MF **A01**

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**NBS/TN-1227**
Force Calibration at the National Bureau of Standards.
PB87-116091 *709,603* PC **A03**/MF **A01**

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PB87-117180 *715,462* PC **A03**/MF **A01**

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PB87-152161 *708,447* PC **A05**/MF **A01**

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PB87-180394 *709,619* PC **A03**/MF **A01**

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PB87-227591 *709,625* PC **A02**/MF **A01**

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PB87-227583 *708,666* PC **A09**/MF **A01**

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PB87-227096 *715,530* PC **A04**/MF **A01**

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PB88-109855 *707,266* PC **A08**/MF **A01**

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Assessment of Error Bounds for Some Typical MIL-STD-461/462 Types of Measurements.
PB87-151015 *706,775* PC **A06**/MF **A01**

**NBS/TN-1301**
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PB87-131314 *710,248* PC **A04**/MF **A01**

**NBS/TN-1302**
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PB87-134342 *706,686* PC **A05**/MF **A01**

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Lattice Approach to Volumes Irradiated by Unknown Sources.
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**NBS/TN-1306**
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PB87-134375 *707,652* PC **A03**/MF **A01**

**NBS/TN-1307**
Limits to the Precision of Electro-Optic and Magneto-Optic Sensors.
PB87-212536 *708,469* PC **A06**/MF **A01**

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PB88-110051 *706,039* PC **A03**/MF **A01**

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PB87-210233 *707,663* PC **A03**/MF **A01**

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PB88-123732 *707,669* PC **A05**/MF **A01**

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PB88-131677 *707,857* PC **A03**/MF **A01**

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AD-A078 596/4 *710,952* PC **A03**/MF **A01**

**NBS-276.01**
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**NBS-276.03**
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**NBS-312.01/35**
Metallurgical Analysis of a Steel Shell Plate Taken from a Tank Car Accident Near South Byron, N.Y.
PB-250 063/5 *715,658* PC **A04**/MF **A01**

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PB-250 530/3 *715,659* PC **A05**/MF **A01**

**NBS-561**
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PB80-223431 *702,158* Not available NTIS

**NBS-5610406-TR-5**
Ultratrace Speciation and Biogenesis of Methyltin Transport Species in Estuarine Waters.
AD-A100 587/5 *709,300* PC **A03**/MF **A01**

**NBSIR-73-106**
System for Computerized Surface Roughness Measurement.
PB-273 940/7 *709,467* PC **A04**/MF **A01**

**NBSIR-73-123**
Resistance of Human Skin to Puncture and Laceration.
PB-275 435/6 *701,943* PC **A04**/MF **A01**

**NBSIR-73-136**
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PB-273 995/1 *709,470* PC **A02**/MF **A01**

**NBSIR-73-196**
Surface Finish, Friction and Wear; The Need for More Than One Parameter.
PB-273 941/5 *713,909* PC **A03**/MF **A01**

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**NBSIR-73-291**
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PB-272 376/5 *709,465* PC **A03**/MF **A01**

**NBSIR-74-452**
Design and Evaluation Criteria for Energy Conservation in New Buildings,
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**NBSIR-74-498**
Evaluation of Archival Stability of Copies from Representative Office Copying Machines.
PB-280 275/9 *711,867* PC **A04**/MF **A01**

**NBSIR-74-500**
CODASYL Data Base Approach: A COBOL Example of Design and Use of a Personnel File.
PB-265 694/0 *700,002* PC **A05**/MF **A01**

**NBSIR-74-594**
Examination of Failed Four Inch Cast Iron Pipe Natural Gas Main, Philadelphia Gas Works, Philadelphia, Pennsylvania.
PB-243 546/9 *715,623* PC **A02**/MF **A01**

**NBSIR-74-601**
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PB-273 948/0 *714,799* PC **A02**/MF **A01**

**NBSIR-75-655**
Analysis of Findings of Four Tank-Car Accident Reports.
PB-251 097/2 *711,079* PC **A04**/MF **A01**

**NBSIR-75-656**
Impact Properties of Steels Taken from Four Failed Tank Cars.
PB-255 854/2 *715,661* PC **A08**/MF **A01**

**NBSIR-75-657**
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PB-255 907/8 *715,662* PC **A04**/MF **A01**

**NBSIR-75-789**
Graffiti-Resistant Coatings: Methods of Test and Preliminary Selection Criteria.
PB-275 159/2 *710,813* PC **A03**/MF **A01**

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Recommended Criteria for Retrofit Materials and Products Eligible for Tax Credit.
PB-266 907/5 *708,797* PC **A04**/MF **A01**

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PB-274 629/5 *710,264* PC **A04**/MF **A01**

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PB-275 158/4 *711,857* PC **A03**/MF **A01**

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PB-265 622/1 *709,963* PC **A03**/MF **A01**

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PB-299 158/6 *708,234* PC **A05**/MF **A01**

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PB-264 290/8 *709,219* PC **A05**/MF **A01**

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PB-274 643/6 *713,240* PC **A03**/MF **A01**

**NBSIR-75-940**
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PB-276 020/5 *702,074* PC **A06**/MF **A01**

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PB-269 535/1 *714,775* PC **A04**/MF **A01**

**NBSIR-75-945**
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PB-276 494/2 *709,476* PC **A04**/MF **A01**

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Economic Analysis of the National Measurement System,
PB-274 049/6 *709,972* PC **A03**/MF **A01**

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PB-274 048/8 *714,801* PC **A07**/MF **A01**

**NBSIR-76-847**
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AD-A037 413/2 *713,857* PC **A09**/MF **A01**

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PB-266 945/5 *709,644* PC **A04**/MF **A01**

**NBSIR-76-851**
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PB-263 124/0 *713,832* PC **A02**/MF **A01**

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PB-268 130/2 *709,460* PC **A05**/MF **A01**

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**NBSIR-76-1030**
Effect of Sample Orientation in the Smoke Density Chamber.
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**NBSIR-76-1075**
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PB-274 653/5 *710,632* PC **A02**/MF **A01**

**NBSIR-76-1078**
Piezoelectric Polymer Transducers for Dynamic Pressure Measurements.
PB-264 125/6 *715,664* PC **A03**/MF **A01**

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PB-263 526/6 *707,463* PC **A05**/MF **A01**

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PB-273 666/8 *709,971* PC **A13**/MF **A01**

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PB-274 712/9 *713,241* PC **A03**/MF **A01**

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**NBSIR-76-1145**
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PB-269 355/4 *709,393* PC **A10**/MF **A01**

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**NBSIR-76-1152**
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PB-265 719/5 *702,007* PC **A06**/MF **A01**

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PB-262 366/8 *706,464* PC **A03**/MF **A01**

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PB-276 536/0 *700,805* PC **A09**/MF **A01**

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PB-263 883/1 *700,924* PC **A06**/MF **A01**

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PB-267 221/0 *701,395* PC **A03**/MF **A01**

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PB-279 373/5 *706,897* PC **A03**/MF **A01**

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PB-263 776/7 *702,050* PC **A03**/MF **A01**

**NBSIR-77-853**
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PB-265 075/2 *707,871* PC **A02**/MF **A01**

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PB-266 944/8 *713,092* PC **A04**/MF **A01**

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PB-274 186/6 *702,946* PC **A02**/MF **A01**

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PB-272 355/9 *702,925* PC **A11**/MF **A01**

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PB-274 057/9 *707,565* PC **A03**/MF **A01**
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PB-274 058/7 *708,603* PC **A04**/MF **A01**

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AD-A046 831/4 *709,442* PC **A08**/MF **A01**

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PB-274 456/3 *708,198* PC **A03**/MF **A01**

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PB82-232919 *711,529* PC **A03**/MF **A01**

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PB-280 795/6 *708,773* PC **A12**/MF **A01**

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PATENT-4 233 107 *710,811* Not available NTIS

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PATENT-4 283 461 *712,977* Not available NTIS

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PATENT-4 315 255 *708,178* Not available NTIS

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PATENT-4 433 400 *709,447* Not available NTIS

**PAT-APPL-6-238 236**
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PB83-600038 *713,486* Not available NTIS

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Method for Producing Carbocyclic Compounds from Cyclic Sulfide.
PATENT-4 327 233 *702,646* Not available NTIS

**PAT-APPL-6-267 312**
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**PAT-APPL-6-272 231**
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PATENT-4 393 699 *710,594* Not available NTIS

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Method for Removing Sulfur Dioxide from a Gas Stream.
PATENT-4 351 810 *702,647* Not available NTIS

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PATENT-4 361 630 *710,812* Not available NTIS

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Frequency Stabilization for Two-Mode Laser.
PB83-600037 *713,485* Not available NTIS

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PATENT-4 471 444 *709,924* Not available NTIS

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PATENT-4 423 768 *709,954* Not available NTIS

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PATENT-4 447 743 *708,602* Not available NTIS

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PATENT-4 499 770 *710,866* Not available NTIS

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PATENT-4 491 014 *710,475* Not available NTIS

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PATENT-4 494 563 *709,956* Not available NTIS

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PATENT-4 489 240 *712,425* Not available NTIS

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Optical Fiber Thermometer.
PATENT-4 576 486 *709,958* Not available NTIS

**PAT-APPL-6-553 387**
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PATENT-4 517 665 *707,540* Not available NTIS

**PAT-APPL-6-565 212**
Dental Composite Formulation from Acrylate Monomer and Polythiol Accelerator.
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Process and Bath for Electroplating Nickel-Chromium Alloys.
PATENT-4 461 680 *710,487* Not available NTIS

**PAT-APPL-6-571 288**
Synchronous Phase Marker and Amplitude Detector.
PATENT-4 520 320 *708,179* Not available NTIS

**PAT-APPL-6-577 855**
Arc Furnace for the Production of Small Investment Castings of Reactive or Refractory Metals Such as Titanium.
PATENT-4 538 671 *711,362* Not available NTIS

**PAT-APPL-6-581 831**
Flexure Hinge.
PATENT-4 559 717 *710,476* Not available NTIS

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PATENT-4 590 597 *713,202* Not available NTIS

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PATENT-4 558 218 *702,792* Not available NTIS

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PATENT-4 616 073 *712,250* Not available NTIS

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PATENT-4 577 510 *709,959* Not available NTIS

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PATENT-4 653 036 *707,541* Not available NTIS

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PATENT-4 575 690 *707,870* Not available NTIS

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PATENT-4 700 150 *713,203* Not available NTIS

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PATENT-4 681 855 *706,222* Not available NTIS

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Process for Preparing Refractory Borides and Carbides.
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PATENT-4 618 410 *712,637* Not available NTIS

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PATENT-4 638 257 *707,675* Not available NTIS

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Method and Apparatus Relating to Specimen Cells for Scanning Electron Microscopes.
PATENT-4 705 949 *712,145* Not available NTIS

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Pressure and Temperature Insensitive Glass and Optical Coatings and Fibers Therefrom.
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PATENT-4 714 339 *707,551* Not available NTIS

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PATENT-4 699 551 *709,672* Not available NTIS

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Micromanipulator System.
PATENT-4 694 230 *710,535* Not available NTIS

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PATENT-4 707 013 *710,574* Not available NTIS

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PATENT-4 654 279 *702,793* Not available NTIS

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PATENT-4 687 588 *708,669* Not available NTIS

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Photographic Polymeric Composition Containing a Leuco Dye Cyanide.
PATENT-4 006 023 *706,130* Not available NTIS

**PAT-APPL-587 565**
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PB77-600060 *707,695* Not available NTIS

**PAT-APPL-590 355**
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PATENT-4 008 477 *707,561* Not available NTIS

**PAT-APPL-595 254**
System and Method for Tracking a Signal Source.
PATENT-4 067 015 *707,556* Not available NTIS

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PATENT-4 025 406 *712,735* Not available NTIS

**PAT-APPL-652 957-77**
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PATENT-4 001 681 *707,864* Not available NTIS

**PAT-APPL-657 918**
Satellite Controlled Digital Clock System.
PATENT-4 014 166 *715,608* Not available NTIS

**PAT-APPL-663 401**
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PATENT-4 069 479 *706,875* Not available NTIS

**PAT-APPL-715 026**
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PATENT-4 009 704 *700,211* Not available NTIS

**PAT-APPL-736 987**
Scanning Electron Microscope Micrometer Scale and Method for Fabricating Same.
PATENT-4 068 381 *702,041* Not available NTIS

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PATENT-4 091 327 *707,562* Not available NTIS

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PATENT-4 087 738 *707,865* Not available NTIS

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Apparatus for Galvanic Detection of Optical Absorptions.
PATENT-4 148 586 *702,791* Not available NTIS

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Fringe Counting Interferometric System for High Accuracy Measurements.
PATENT-4 165 183 *708,177* Not available NTIS

**PAT-APPL-829 381**
Six-Port Measuring Circuit.
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**PAT-APPL-848 176**
Method for Fabricating a Scanning Electron Microscope Micrometer Scale.
PATENT-4 139 933 *709,443* Not available NTIS

**PAT-APPL-851 326**
Frequency Stabilization Utilizing Multiple Modulation.
PATENT-4 122 408 *707,866* Not available NTIS

**PAT-APPL-855 275**
Tertiary Aromatic Amine Accelerators in Acrylic Resin.
PATENT-4 243 763 *712,246* Not available NTIS

**PAT-APPL-860 799**
Method and Apparatus for Implementation of the CMAC Mapping Algorithm.
PATENT-4 193 115 *712,564* Not available NTIS

**PAT-APPL-862 311**
Picosecond Pulse Generator Utilizing a Josephson Junction.
PATENT-4 168 441 *707,868* Not available NTIS

**PAT-APPL-863 840**
Cryogenic Refrigeration System.
PATENT-4 143 520 *707,867* Not available NTIS

**PAT-APPL-868 176**
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**PAT-APPL-870 384**
Frequency Stabilizing System and Method for Beam Type Device.
PB79-600041 *714,892* Not available NTIS

**PAT-APPL-880 406**
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Use of Sulphur as an Additive to Inhibit the Smoldering Combustion of Materials.
PATENT-4 260 660 *710,864* Not available NTIS

**PAT-APPL-913 918**
Reactive Gas Generator.
PATENT-4 224 279 *702,533* Not available NTIS

**PAT-APPL-938 298**
Microwave Integrated Circuit for Josephson Voltage Standards.
PATENT-4 227 096 *707,978* Not available NTIS

**PAT-APPL-941 308**
Microporous Glassy Fillers for Dental Resin Composites.
PATENT-4 217 264 *706,221* Not available NTIS

**PAT-APPL-960 193**
Frequency Stabilized Laser.
PATENT-4 184 127 *713,201* Not available NTIS

**PATENT-4 001 681**
Vector Voltmeter.
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**PATENT-4 006 023**
Photographic Polymeric Composition Containing a Leuco Dye Cyanide.
PATENT-4 006 023 *706,130* Not available NTIS

**PATENT-4 008 477**
Antenna with Inherent Filtering Action.
PATENT-4 008 477 *707,561* Not available NTIS

**PATENT-4 008 610**
Self-balancing D.C.-Substitution Measuring System.
PB77-600060 *707,695* Not available NTIS

**PATENT-4 009 704**
Cool-Touch Cooking Surfaces.
PATENT-4 009 704 *700,211* Not available NTIS

**PATENT-4 014 166**
Satellite Controlled Digital Clock System.
PATENT-4 014 166 *715,608* Not available NTIS

**PATENT-4 025 406**
Photochemical Method for Chlorine Isotopic Enrichment.
PATENT-4 025 406 *712,735* Not available NTIS

**PATENT-4 067 015**
System and Method for Tracking a Signal Source.
PATENT-4 067 015 *707,556* Not available NTIS

**PATENT-4 068 381**
Scanning Electron Microscope Micrometer Scale and Method for Fabricating Same.
PATENT-4 068 381 *702,041* Not available NTIS

**PATENT-4 069 479**
High Speed, Wide Dynamic Range Analog-to-Digital Conversion.
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**TT-74-53222**
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PB-281 215-T *711,095* PC **A02**/MF **A01**

**TT-74-53223**
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PB-281 214-T *711,403* PC **A03**/MF **A01**

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PB-291 487-T *711,431* PC **A02**/MF **A01**

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PB-261 014-T *710,622* PC **A02**/MF **A01**

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**TT-74-53425**
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PB-261 012-T *711,080* PC **A02**/MF **A01**

**TT-75-53171**
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PB-291 574-T *711,435* PC **A02**/MF **A01**

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Rebecca Pardee, Ernestine Gladden, and Donald Harris

6. PERFORMING ORGANIZATION (IF JOINT OR OTHER THAN NIST, SEE INSTRUCTIONS)
U.S. DEPARTMENT OF COMMERCE
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11. ABSTRACT (A 200-WORD OR LESS FACTUAL SUMMARY OF MOST SIGNIFICANT INFORMATION. IF DOCUMENT INCLUDES A SIGNIFICANT BIBLIOGRAPHY OR LITERATURE SURVEY, MENTION IT HERE.)

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